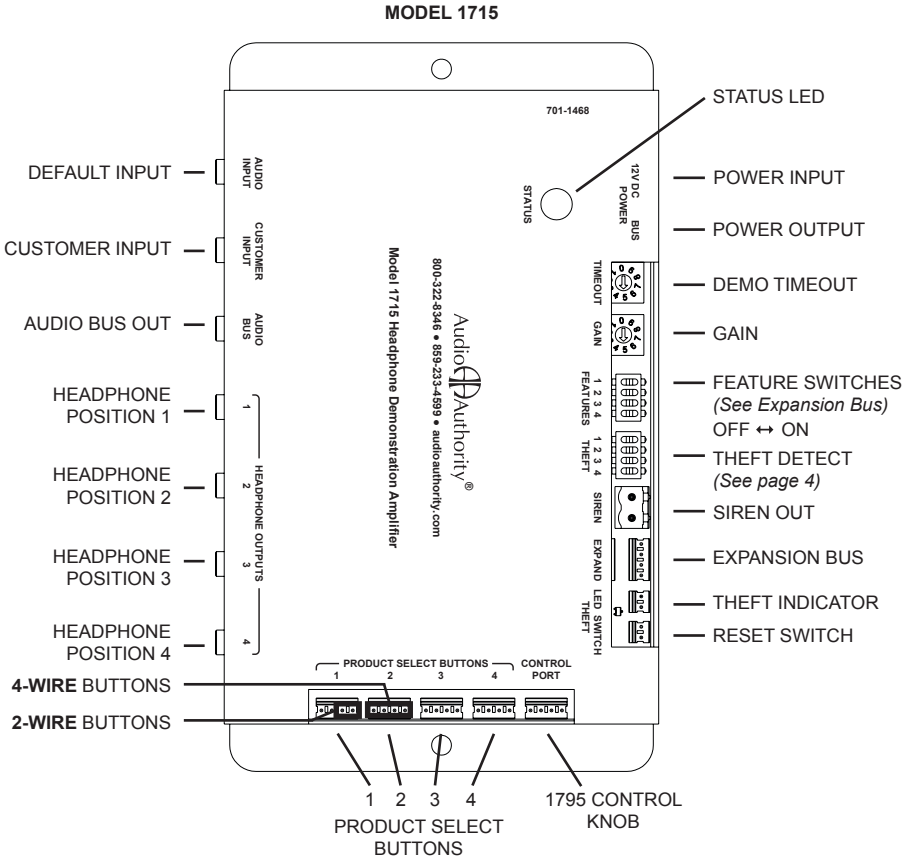
User Manual

Model 1715
Headphone Demonstration Amplifier

Audio Authority®

Introduction

The 1715 is designed to provide high fidelity amplification and theft detection for headphones in self service retail demonstrations. Only one of the four outputs may be active at any one time. Larger switching systems, linked by Expansion Bus and audio patch cords, can allow one live position on each 1715 or be combined for a large system (*see Expansion Bus*). For best results use a commercial grade lossless audio player such as our Model 1703.



Package Contents

Before installing this product, please check the packaging and make certain the following items are contained in the shipping carton:

- 1715 Headphone Demonstrator
- DC Power Adapter
- User Manual

Features

- Powerful 400 mW (*into 32 ohms*) headphone amplification
- Adjustable demonstration timeout
- Automatic selection of customer audio source when connected
- Theft detection and integral alarm
- Multiple units (up to four) can be connected

Audio Sources and Customer Auto Demo

Connect a 1703 music player to the Audio Input jack as the default source. If desired, provide a 3.5mm cord connected to the Customer Input so that customers may use their own music players to demonstrate headphones. When audio is detected on the Customer Input jack, the customer device is automatically selected as the audio source. If no audio is detected on the Customer Input for 3 seconds, the 1715 switches back to the Default Input.

Audio Bus Out

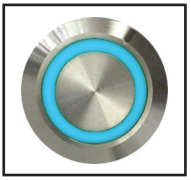
The bus output feeds the currently selected audio input to more 1715 modules or other audio devices in the system. Connect a 3.5mm patch cord from the first 1715 bus output to the second 1715 default Audio Input, etc. One linked system sharing a Default Input also must share one Customer Input (***do not use any Customer inputs besides the first 1715***).

Expansion Bus

Expansion Bus is a four-conductor cable that allows multiple 1715 modules to be connected and communicate with each other. They can coordinate current product selection as well as alarm signals and alarm reset (*see Theft Detection on page 4*). The expanded system may allow one output per 1715 module to play (Module Mode), or one output for the entire system (System Mode). Turn on Feature Switch 1 of each 1715 to activate System Mode.

Product Select Button (PSB) Ports

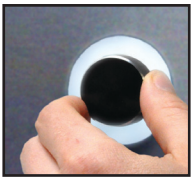
Push-buttons (4-wire or 2-wire) may be used to select tracks. They are available in several styles and colors; pictured right is a stainless steel button illuminated with blue LED ring.



PSB-224 push-button. Various cable lengths are available.

Control Port

To control volume on all four outputs, connect a 1795 Visual Volume™ Control knob (sold separately). This control option gives visual feedback with its glow ring, its brightness indicating volume changes; a slow pulse highlights the knob during attract mode. Push to mute the track, and rotate knob to adjust volume.



1795 Rotary Control with black knob.

Timeout Interval

The demo timer is initiated each time a customer selects a product output to audition. The demonstration length is set by the timeout switch, in 15 second increments. If the switch is set to 0, then the automatic demonstration timeout feature is disabled.

Power

Connect included 12V power supply to Power Input. Connect jumper to other 1715 units if desired, up to four units total.

How to Set the Gain Control

- Raise the volume controls (on the player and/or 1715) to maximum.
- Choose at least one pair of headphones that has similar impedance and sensitivity to the range of headphones you wish to demonstrate, and connect them to 1715 outputs.
- Turn the 1715 Gain dial to 1 and start the music player.
- Select a headphone position, and raise the 1715 Gain dial to the point of distortion, then adjust it down to the desired maximum level.

Theft Detection

1715 theft detection (off by default) is compatible with most headphone models, including models with active circuitry such as noise cancelling. Activate theft detection using the Theft Detect switches, which are numbered to correspond with each headphone position. Keep cable lengths as short as possible. All devices should be tested for proper detection behavior upon installation. If detection does not work for a particular device, disable detection for that port.

Attach a reset switch (contact closure) to reset the alarm. The theft indicator LED(s) turn off when the reset switch is on. *Only one reset switch* is needed per system; reset status is communicated to all other modules that are connected via the Expansion Bus cable. We recommend that a remote theft indicator light should be installed in clear view of customers. The blinking LED is a deterrent, warning that theft detection is active. The 1715's on-board buzzer sounds if it detects an unauthorized removal, but if a louder alarm is desired, the external siren port can power a 12VDC siren. When headphones must be connected and disconnected, turn on the siren reset switch, make product changes, and turn the switch off again.

When active, the theft indicator blinks and the 1715 detects the headphones that are connected, so that it will trigger the alarm if one is removed.

Operation

On power up, the status light blinks to show normal operation, and the selected product button is lit. When the Customer Input is being used, the Status light blinks rapidly. If used, the 1795 pulses in attract mode and indicates volume levels during a demo.

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